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[Continued on next page]

(54) Title: INTRA CODING VIDEO DATA METHODS AND APPARATUSES

q	t ₀	t ₁	t ₂	t ₃	t ₄	t ₅	t ₆	t ₇	t ₈	t ₉	t ₁₀	t ₁₁	t ₁₂	t ₁₃	t ₁₄	t ₁₅
t ₀	p ₀₀	p ₀₁	p ₀₂	p ₀₃	p ₀₄	p ₀₅	p ₀₆	p ₀₇								
t ₁	p ₁₀	p ₁₁	p ₁₂	p ₁₃	p ₁₄	p ₁₅	p ₁₆	p ₁₇								
t ₂	p ₂₀	p ₂₁	p ₂₂	p ₂₃	p ₂₄	p ₂₅	p ₂₆	p ₂₇								
t ₃	p ₃₀	p ₃₁	p ₃₂	p ₃₃	p ₃₄	p ₃₅	p ₃₆	p ₃₇								
t ₄	p ₄₀	p ₄₁	p ₄₂	p ₄₃	p ₄₄	p ₄₅	p ₄₆	p ₄₇								
t ₅	p ₅₀	p ₅₁	p ₅₂	p ₅₃	p ₅₄	p ₅₅	p ₅₆	p ₅₇								
t ₆	p ₆₀	p ₆₁	p ₆₂	p ₆₃	p ₆₄	p ₆₅	p ₆₆	p ₆₇								
t ₇	p ₇₀	p ₇₁	p ₇₂	p ₇₃	p ₇₄	p ₇₅	p ₇₆	p ₇₇								

a

(57) Abstract: Streamlined prediction approaches are provided to predict pixel values of a 4x4 subblock of a macroblock of video data being encoded, under a number of prediction modes. Additionally, prediction approaches are provided to predict pixel values of a non-4x4 MxN subblock of a macroblock of video data being encoded, under a number of prediction modes, including 8x8, 8x4 and 4x8 subblocks. The invention may be practiced in an encoder and/or a decoder of a video apparatus.



SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,*

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- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*
- *of inventorship (Rule 4.17(iv)) for US only*

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	"WORKING DRAFT NUMBER 2, REVISION 0 (WD-2)" DOCUMENT JVT-B118, XX, XX, 3 December 2001 (2001-12-03), pages 1,3-100, XP001086632 page 27, paragraph 4.4.4 -page 32, paragraph 4.4.5 ---	1-30
X	BJONTEGAARD G (EDITOR): "H.26L TEST MODEL LONG TERM NUMBER 8 (TML-8) DRAFT0" ITU STUDY GROUP 16 - VIDEO CODING EXPERTS GROUP, XX, XX, 2 April 2001 (2001-04-02), pages 1-2,16-19, XP002250455 the whole document -----	1-30

☐ Further documents are listed in the continuation of box C.☐ Patent family members are listed in annex.*** Special categories of cited documents :**

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